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13. OIP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/802,674

DATE: 03/27/2001 TIME: 15:29:23

Input Set : A:\Dex-1421.app

Output Set: N:\CRF3\03272001\I802674.raw



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3 <110> APPLICANT: Macina, Roberto A
             Piderit, Alejandra
             Sun, Yongming
       <120> TITLE OF INVENTION: Method of Diagnosing, Monitoring, Staging, Imaging and
             Treating Gastrointestinal Cancer
    10 <130> FILE REFERENCE: DEX-0142
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/802,674
C--> 13 <141> CURRENT FILING DATE: 2001-03-09
     15 <150> PRIOR APPLICATION NUMBER: 60/188,061
     16 <151> PRIOR FILING DATE: 2000-03-09
     18 <160> NUMBER OF SEQ ID NOS: 13
     20 <170> SOFTWARE: PatentIn Ver. 2.1
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     25 <213> ORGANISM: Homo sapiens
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     30 agccattgca cccagccgat actactatat ccccatttta cagatgagca catgggcaaa 180
     31 ttgagggtaa ggcactgacc catgatcata cagctgagaa gtggcaaagg caggatttga 240
     32 acctagaacc tetggeteca cacactagta atetaaacca etetecetae aatacaacat 300
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     34 gaggcaggaa tttgcagttc ctccgcgttc tcctcctccg ctgcccacct gtcctgggtc 420
     35 attectgcag cetgecetge cetgectggt etcaccetee etctgccaac agaagtetgg 480
     36 gcagggtttt atgggctctg ataaggccct ggcagggccg aagttcatga gcacttcctc 540
     37 tttgcaggag ggcgtagggg aggggaccca ggtgatttgg gtcctggctg gtcaccaggg 600
     38 aagctggcaa gggaagggag actagggtgc gctctaggag aagccgacag cctgagagtc 660
     39 ccagaagagg agecetgtgg acceteceet gccagecact ccettaceet gggtataaga 720
     40 gccaccaccg cctgccatcc gccaccatct cccactcctg cagctcttct cacaggacca 780
     41 gccactageg cagectegag egatggeeta tgteecegea eegggetaee ageceaeeta 840
     42 caaccegacg etgeettact accageceat ecegggeggg etcaacgtgg gaatgtetgt 900
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     44 gcaggatccg ggctcagacg tcgccttcca cttcaatccg cggtttgacg gctgggacaa 1020
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     46 gcccttcaaa aagggtgccg cctttgagct ggtcttcata gtcctggctg agcactacaa 1140
     47 ggtggtggta aatggaaatc cettetatga gtacgggcac cggetteece tacagatggt 1200
     48 cacccacctg caagtggatg gggatctgca acttcaatca atcaacttca tcggaggcca 1260
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Input Set : A:\Dex-1421.app

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59 ctcatg
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64 <212> TYPE: PRT
65 <213> ORGANISM: Homo sapiens
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71 Leu Pro Tyr Tyr Gln Pro Ile Pro Gly Gly Leu Asn Val Gly Met Ser
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                                    25
74 Val Tyr Ile Gln Gly Val Ala Ser Glu His Met Lys Arg Phe Phe Val
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                                40
                                                    4.5
77 Asn Phe Val Val Gly Gln Asp Pro Gly Ser Asp Val Ala Phe His Phe
                            55
80 Asn Pro Arg Phe Asp Gly Trp Asp Lys Val Val Phe Asn Thr Leu Gln
                        70
                                            75
83 Gly Gly Lys Trp Gly Ser Glu Glu Arg Lys Arg Ser Met Pro Phe Lys
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                                        90
86 Lys Gly Ala Ala Phe Glu Leu Val Phe Ile Val Leu Ala Glu His Tyr
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                                   105
89 Lys Val Val Val Asn Gly Asn Pro Phe Tyr Glu Tyr Gly His Arg Leu
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                               120
92 Pro Leu Gln Met Val Thr His Leu Gln Val Asp Gly Asp Leu Gln Leu
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                           135
                                               140
95 Gln Ser Ile Asn Phe Ile Gly Gly Gln Pro Leu Arg Pro Gln Gly Pro
                      150
                                           155
98 Pro Met Met Pro Pro Tyr Pro Gly Pro Gly His Cys His Gln Gln Leu
                  165
                                      170
101 Asn Ser Leu Pro Thr Met Glu Gly Pro Pro Thr Phe Asn Pro Pro Val
               180
                                    185
104 Pro Tyr Phe Gly Arg Leu Gln Gly Gly Leu Thr Ala Arg Arg Thr Ile
           195
                                200
                                                   205
107 Ile Ile Lys Gly Tyr Val Pro Pro Thr Gly Lys Ser Phe Ala Ile Asn
                            215
                                                220
110 Phe Lys Val Gly Ser Ser Gly Asp Ile Ala Leu His Ile Asn Pro Arg
111 225
                        230
                                            235
113 Met Gly Asn Gly Thr Val Val Arg Asn Ser Leu Leu Asn Gly Ser Trp
                    245
                                        250
116 Gly Ser Glu Glu Lys Lys Ile Thr His Asn Pro Phe Gly Pro Gly Gln
               260
                                    265
119 Phe Phe Asp Leu Ser Ile Arg Cys Gly Leu Asp Arg Phe Lys Val Tyr
                                280
122 Ala Asn Gly Gln His Leu Phe Asp Phe Ala His Arg Leu Ser Ala Phe
                           295
                                                300
125 Gln Arg Val Asp Thr Leu Glu Ile Gln Gly Asp Val Thr Leu Ser Tyr
126 305
                        310
                                            315
128 Val Gln Ile
132 <210> SEQ ID NO: 3
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RAW SEQUENCE LISTING

DATE: 03/27/2001 PATENT APPLICATION: US/09/802,674 TIME: 15:29:23

Input Set : A:\Dex-1421.app

Output Set: N:\CRF3\03272001\1802674.raw

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145 tacttggttt cttccttgtt attgtcataa taaaatgttt tctatgctgt ttagtgcaac 480 146 ttaggcccta ttctgtagaa gtctcctcta ctattcaggc cactcaaaca ccccaaataa 540 147 ttgagttcaa aatcgacatc aagatataaa ggaatcagtg actaaatata tttcatatat 600 148 ggtattttta ttgattattg tgctgtcttg acctagtatg gaggccttgg ctagaggctg 660

149 gtcagtttcc tctcttgagc agctgattaa atccacaccc caaccacttc ccttatcagg 720 150 ttctcacact ctggggccac tatgtaccca ctctaatcac cacagggcca gacatcagac 780 151 aattaaggac agcgcccatg ccccaaagcc cgccaaaatt atgcaaatta ttcaaaatta 840 152 ttcaacctag ctaaccccac cetttttgct gtacataage tgcccattce cectecagee 900

153 tgtggtaccc agtcctcagg tgcaaccccc tgcgtggtcc tctgtggcag ccttctctca 960 154 ttcagagctg ttttccacag aggtagtgaa aagaactggá ttttcaagtt cactttgcaa 1020 155 gagaaaaaga aaactcagta gaagataatg gcaagtccag actggggata tgatgacaaa 1080 156 aatggtcctg aacaatggag caagctgtat cccattgcca atggaaataa ccaatcccct 1140 157 gttgatatta aaaccagtga aaccaaacat gacacctctc tgaaacctat tagtgtctcc 1200 158 tacaacccag ccacagccaa agaaattatc aatgtggggc attetteca tgtaaatttt 1260

159 gaggacaacg ataaccgatc agtgctgaaa ggtggtcctt tctctgacag ctacaggctc 1320 160 tttcagtttc attttcactg gggcagtaca aatgagcatg gttcagaaca tacagtggat 1380 161 ggagtcaaat attctgccga gcttcacgta gctcactgga attctgcaaa gtactccaqc 1440 162 cttgctgaag ctgcctcaaa ggctgatggt ttggcagtta ttggtgtttt gatgaaggtt 1500 163 ggtgaggcca acccaaagct gcagaaagta cttgatgccc tccaagcaat taaaaccaag 1560

164 ggcaaacgag ccccattcac aaattttgac ccctctactc tccttccttc atccctggat 1620 165 ttctggacct accetggete tctgactcat ceteetettt atgagagtgt aacttggate 1680 166 atctgtaagg agagcatcag tgtcagctca gagcagctgg cacaattccg cagccttcta 1740 167 tcaaatgttg aaggtgataa cgctgtcccc atgcagcaca acaaccgccc aacccaacct 1800 168 ctgaagggca gaacagtgag agcttcattt tgatgattct gagaagaaac ttgtccttcc 1860

169 tcaagaacac agccctgctt ctgacataat ccagttaaaa taataatttt taagaaataa 1920 170 atttatttca atattagcaa gacagcatgc cttcaaatca atctgtaaaa ctaagaaact 1980 171 taaattttag ttcttactgc ttaattcaaa taataattag taagctagca aatagtaatc 2040 172 tgtaagcata agcttatctt aaattcaagt ttagtttgag gaattcttta aaattacaac 2100 173 taagtgattt gtatgtctat ttttttcagt ttatttgaac caataaaata attttatctc 2160

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178 gtgatcaaaa tgattatctt ttatatagga agatgacgct tctggatatt gctttcactt 2460 179 cttctcccca cgttagcaag gacaatgctt ctctgccatt attacaacta gttagtttgc 2520 180 atggagaatc tttactttaa aattggaaga aaagtcacaa gtgaatggtt tataaaaatg 2580 181 ctaaagaagt cattcttgct tagaatcata tagaaacatc atgcaatctt ttagtcagat 2640

182 gtgcgcttca ccttatgcta tttttatctt taattgacac acaataattg tacatgttta 2700

RAW SEQUENCE LISTING DATE: 03/27/2001
PATENT APPLICATION: US/09/802,674 TIME: 15:29:23

Input Set : A:\Dex-1421.app

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 196 Trp Ser Lys Leu Tyr Pro Ile Ala Asn Gly Asn Asn Gln Ser Pro Val
                  20
                                      25
 199 Asp Ile Lys Thr Ser Glu Thr Lys His Asp Thr Ser Leu Lys Pro Ile
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 202 Ser Val Ser Tyr Asn Pro Ala Thr Ala Lys Glu Ile Ile Asn Val Gly
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 205 His Ser Phe His Val Asn Phe Glu Asp Asn Asp Asn Arg Ser Val Leu
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 208 Lys Gly Gly Pro Phe Ser Asp Ser Tyr Arg Leu Phe Gln Phe His Phe
 209
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                                         90
211 His Trp Gly Ser Thr Asn Glu His Gly Ser Glu His Thr Val Asp Gly
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214 Val Lys Tyr Ser Ala Glu Leu His Val Ala His Trp Asn Ser Ala Lys
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217 Tyr Ser Ser Leu Ala Glu Ala Ala Ser Lys Ala Asp Gly Leu Ala Val
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220 Ile Gly Val Leu Met Lys Val Gly Glu Ala Asn Pro Lys Leu Gln Lys
221 145
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223 Val Leu Asp Ala Leu Gln Ala Ile Lys Thr Lys Gly Lys Arg Ala Pro
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                                        170
                                                            175
226 Phe Thr Asn Phe Asp Pro Ser Thr Leu Leu Pro Ser Ser Leu Asp Phe
227
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                                    185
229 Trp Thr Tyr Pro Gly Ser Leu Thr His Pro Pro Leu Tyr Glu Ser Val
        195
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                                                 205 يې
232 Thr Trp Ile Ile Cys Lys Glu Ser Ile Ser Val Ser Ser Glu Gln Leu
                            215
235 Ala Gln Phe Arg Ser Leu Leu Ser Asn Val Glu Gly Asp Asn Ala Val
236 225
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238 Pro Met Gln His Asn Asn Arg Pro Thr Gln Pro Leu Lys Gly Arg Thr
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RAW SEQUENCE LISTING DATE: 03/27/2001 PATENT APPLICATION: US/09/802,674 TIME: 15:29:23

Input Set : A:\Dex-1421.app

Output Set: N:\CRF3\03272001\I802674.raw

258 <210> SEQ ID NO: 6 259 <211> LENGTH: 26 260 <212> TYPE: PRT 261 <213> ORGANISM: Homo sapiens 263 <400> SEQUENCE: 6 264 Pro Arg Phe Asp Gly Trp Asp Lys Val Val Phe Asn Thr Leu Gln Gly 265 1 5 10 267 Gly Lys Trp Gly Ser Glu Glu Arg Lys Arg 268 20 271 <210> SEQ ID NO: 7 272 <211> LENGTH: 24 273 <212> TYPE: PRT 274 <213> ORGANISM: Homo sapiens 276 <400> SEQUENCE: 7 277 Pro Leu Arg Pro Gln Gly Pro Pro Met Met Pro Pro Tyr Pro Gly Pro 278 1 5 10 280 Gly His Cys His Gln Gln Leu Asn 281 20 284 <210> SEQ ID NO: 8 285 <211> LENGTH: 15 286 <212> TYPE: PRT 287 <213> ORGANISM: Homo sapiens 289 <400> SEQUENCE: 8 290 Trp Gly Ser Glu Glu Lys Lys Ile Thr His Asn Pro Phe Gly Pro 10 294 <210> SEQ ID NO: 9 295 <211> LENGTH: 19 296 <212> TYPE: DNA 297 <213> ORGANISM: Artificial Sequence 299 <220> FEATURE: 300 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic 302 <400> SEQUENCE: 9 303 aaccegeetg tgecatatt 19 306 <210> SEQ ID NO: 10 307 <211> LENGTH: 22 308 <212> TYPE: DNA 309 <213> ORGANISM: Artificial Sequence 311 <220> FEATURE: 312 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic 314 <400> SEQUENCE: 10 315 ggagcccacc ttgaagttga ta 22 318 <210> SEQ ID NO: 11 319 <211> LENGTH: 20 320 <212> TYPE: DNA 321 <213> ORGANISM: Artificial Sequence 323 <220> FEATURE: 324 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic

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VERIFICATION SUMMARY

DATE: 03/27/2001 TIME: 15:29:24 PATENT APPLICATION: US/09/802,674

Input Set : A:\Dex-1421.app
Output Set: N:\CRF3\03272001\I802674.raw

L:12 M:270 C: Current Application Number differs, Replaced Application Number L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date